WHAT IS CLAIMED IS:

1	1. A method comprising:
2	attempting in a first attempt to acquire a first resource for a task requiring both a
3	first resource and a second resource;
4	enqueuing said task on a first queue if said first attempt to acquire said first
5	resource for said task fails;
6	acquiring in a second attempt said first resource for said task;
7	removing said task from said first queue;
8	attempting in a first attempt to acquire said second resource for said task;
9	enqueing said task on a second queue if said first attempt to acquire said second
10	resource for said task fails; and
11	releasing said first resource for said task if said first attempt to acquire said
12	second resource for said task fails.
1	
1	2. The method of claim 1 wherein said first task has a first priority, and
2	wherein said first attempt to acquire said first resource fails when a second task having
3	said first priority in enqueued on said first queue.
1	
1	3. The method of claim 2 wherein said first task has a first priority, said
2	method further comprising:
3	attempting in a first attempt to acquire said first resource for a third task requiring
4	said first resource and having a second priority higher than said first priority, and
5	enqueuing said third task on a third queue if said first attempt to acquire said first
6	resource for said third task fails; and
7	wherein said first attempt to acquire said first resource for said first task fails
8	when said third task having said second priority is in enqueued on said third queue.

1	4. The method of claim 3 wherein said first task has a first priority, and wherein
2	said first attempt to acquire said second resource fails when a fourth task having said first
3	priority in enqueued on said second queue.
1	
1	5. The method of claim 4 wherein said first task has a first priority, said
2	method further comprising:
3	attempting in a first attempt to acquire said second resource for a fifth task
4	requiring said second resource and having a second priority higher than said first priority,
5	and
6	enqueuing said fifth task on a fourth queue if said first attempt to acquire said
7	second resource for said fifth task fails; and
8	wherein said first attempt to acquire said second resource for said first task fails
9	when said fifth task having said second priority is in enqueued on said fourth queue.
1	
1	6. The method of claim 5 further comprising:
2	acquiring in a third attempt said first resource for said first task;
3	attempting to acquire in a second attempt said second resource for said first task;
4	and
5	releasing said first resource for said first task if said second attempt to acquire
6	said second resource for said task fails.
1	
1	7. The method of claim 5 further comprising:
2	acquiring in a third attempt said first resource for said first task;
3	acquring in a second attempt said second resource for said first task;
4	removing said first task from said second queue; and
5	dispatching said first task to be completed using said first and second resources.
1	
1	8. The method of claim 7 further comprising:

2	finding another task enqueued on one of said second and fourth queues for said
3	second resource;
4	acquiring said first resource for said other task;
5	attempting to acquire said second resource for said other task;
6	removing said other task from its queue if said attempt to acquire said second
7	resource for said other task succeeds;
8	dispatching said other task to be completed using said first and second resources
9	if said attempt to acquire said second resource for said other task succeeds; and
10	releasing said first resource for said other task if said attempt to acquire said
11	second resource for said other task fails.
1	
1	9. The method of claim 7 wherein said third attempt is initiated by the
2	second resource becoming free.
1	
1	10. The method of claim 7 wherein said third attempt is initiated by the first
2	resource becoming free.
1 1	11. The method of claim 7 further comprising:
2	after all tasks have been removed from said second and fourth queues, finding a
3	next task enqueued on one of said first and third queues for said first resource;
4	acquiring said first resource for said next task;
5 .	attempting to acquire said second resource for said next task;
6	removing said next task from its queue if said attempt to acquire said second
7	resource for said next task succeeds;
8	dispatching said next task to be completed using said first and second resources if
9	said attempt to acquire said second resource for said next task succeeds; and
10	releasing said first resource for said next task if said attempt to acquire said
11	second resource for said next task fails.
1	

1	12. An article of manufacture wherein the article of manufacture causes
2	operations, the operations comprising:
3	attempting in a first attempt to acquire a first resource for a task requiring both a
4	first resource and a second resource;
5	enqueuing said task on a first queue if said first attempt to acquire said first
6	resource for said task fails;
7	acquiring in a second attempt said first resource for said task;
8	removing said task from said first queue;
9	attempting in a first attempt to acquire said second resource for said task;
10	enqueing said task on a second queue if said first attempt to acquire said second
11	resource for said task fails; and
12	releasing said first resource for said task if said first attempt to acquire said
13	second resource for said task fails.
1	
1	13. The article of claim 12 wherein said first task has a first priority, and
2	wherein said first attempt to acquire said first resource fails when a second task having
3	said first priority in enqueued on said first queue.
1	
1	14. The article of claim 13 wherein said first task has a first priority, said
2	operations further comprising:
3	attempting in a first attempt to acquire said first resource for a third task requiring
4	said first resource and having a second priority higher than said first priority, and
5	enqueuing said third task on a third queue if said first attempt to acquire said first
6	resource for said third task fails; and
7	wherein said first attempt to acquire said first resource for said first task fails
8	when said third task having said second priority is in enqueued on said third queue.
1	•

1	15. The article of claim 14 wherein said first task has a first priority, and wherein
2	said first attempt to acquire said second resource fails when a fourth task having said first
3	priority in enqueued on said second queue.
1	
1	16. The article of claim 15 wherein said first task has a first priority, said
2	operations further comprising:
3	attempting in a first attempt to acquire said second resource for a fifth task
4	requiring said second resource and having a second priority higher than said first priority,
5	and
6	enqueuing said fifth task on a fourth queue if said first attempt to acquire said
7	second resource for said fifth task fails; and
8	wherein said first attempt to acquire said second resource for said first task fails
9	when said fifth task having said second priority is in enqueued on said fourth queue.
1	
1	17. The article of claim 16, said operations further comprising:
2	acquiring in a third attempt said first resource for said first task;
3	attempting to acquire in a second attempt said second resource for said first task;
4	and
5	releasing said first resource for said first task if said second attempt to acquire
5	said second resource for said task fails.
l	
1	18. The article of claim 16, said operations further comprising:
2	acquiring in a third attempt said first resource for said first task;
3	acquring in a second attempt said second resource for said first task;
1	removing said first task from said second queue; and
5	dispatching said first task to be completed using said first and second resources.
1	·
l	19. The article of claim 18, said operations further comprising:

2	Inding another task enqueued on one of said second and fourth queues for said
3	second resource;
4	acquiring said first resource for said other task;
5	attempting to acquire said second resource for said other task;
6	removing said other task from its queue if said attempt to acquire said second
7	resource for said other task succeeds;
8	dispatching said other task to be completed using said first and second resources
9	if said attempt to acquire said second resource for said other task succeeds; and
10	releasing said first resource for said other task if said attempt to acquire said
11	second resource for said other task fails.
1	
1	20. The article of claim 18 wherein said third attempt is initiated by the
` 2	second resource becoming free.
1	
1	21. The article of claim 18 wherein said third attempt is initiated by the first
2	resource becoming free.
1 1	22. The article of claim 18, said operations further comprising:
2	after all tasks have been removed from said second and fourth queues, finding a
3	next task enqueued on one of said first and third queues for said first resource;
4	acquiring said first resource for said next task;
5	attempting to acquire said second resource for said next task;
6	removing said next task from its queue if said attempt to acquire said second
7	resource for said next task succeeds;
8	dispatching said next task to be completed using said first and second resources if
9	said attempt to acquire said second resource for said next task succeeds; and
10	releasing said first resource for said next task if said attempt to acquire said
11	second resource for said next task fails.
1	second resource for said fiest task fails.
1	

I	23. A system comprising:
2	means for attempting in a first attempt to acquire a first resource for a task
3	requiring both a first resource and a second resource;
4	means for enqueuing said task on a first queue if said first attempt to acquire said
5	first resource for said task fails;
6	means for acquiring in a second attempt said first resource for said task;
7	means for removing said task from said first queue;
8	means for attempting in a first attempt to acquire said second resource for said
9	task;
10	means for enqueing said task on a second queue if said first attempt to acquire
11	said second resource for said task fails; and
12	means for releasing said first resource for said task if said first attempt to acquire
13	said second resource for said task fails.
1	
1	24. The system of claim 23 wherein said first task has a first priority, and
2	wherein said first attempt to acquire said first resource fails when a second task having
. 3	said first priority in enqueued on said first queue.
1	
1	25. The system of claim 24 wherein said first task has a first priority, said
2	system further comprising:
3	means for attempting in a first attempt to acquire said first resource for a third
4	task requiring said first resource and having a second priority higher than said first
5	priority, and
6	means for enqueuing said third task on a third queue if said first attempt to
7	acquire said first resource for said third task fails; and
8	wherein said first attempt to acquire said first resource for said first task fails
9	when said third task having said second priority is in enqueued on said third queue.
1	·

ī	20. The system of claim 23 wherein said first task has a first priority, and
2	wherein said first attempt to acquire said second resource fails when a fourth task having
3	said first priority in enqueued on said second queue.
1	
1	27. The system of claim 26 wherein said first task has a first priority, said
2	system further comprising:
3	means for attempting in a first attempt to acquire said second resource for a fifth
4	task requiring said second resource and having a second priority higher than said first
5	priority, and
5	means for enqueuing said fifth task on a fourth queue if said first attempt to
7	acquire said second resource for said fifth task fails; and
3	wherein said first attempt to acquire said second resource for said first task fails
)	when said fifth task having said second priority is in enqueued on said fourth queue.
1	
l	28. The system of claim 27 further comprising:
2	means for acquiring in a third attempt said first resource for said first task;
3	means for attempting to acquire in a second attempt said second resource for said
1	first task; and
5	means for releasing said first resource for said first task if said second attempt to
5	acquire said second resource for said task fails.
l	
l	29. The system of claim 27 further comprising:
2	means for acquiring in a third attempt said first resource for said first task;
3	means for acquring in a second attempt said second resource for said first task;
1	means for removing said first task from said second queue; and
5	means for dispatching said first task to be completed using said first and second
5	resources.
l	

1	30. The system of claim 29 further comprising:
2	means for finding another task enqueued on one of said second and fourth queues
3	for said second resource;
4	means for acquiring said first resource for said other task;
5	means for attempting to acquire said second resource for said other task;
6	means for removing said other task from its queue if said attempt to acquire said
7	second resource for said other task succeeds;
8	means for dispatching said other task to be completed using said first and second
9	resources if said attempt to acquire said second resource for said other task succeeds; and
10	means for releasing said first resource for said other task if said attempt to acquire
11	said second resource for said other task fails.